

**AMENDMENTS TO THE CLAIMS**

Please amend Claims 1, 3-6, and 8-15, and add new Claims 16-20, as shown below. This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS**

1. (Currently Amended) A terminal for displaying application program information in a windowing environment comprising:

a processor ~~processing means, not fully compatible with personal computer BIOS or disk operating systems and incapable of executing windowing applications locally,~~ adapted to receive windowing information supplied by application programs executing on ~~a remotely located~~ an application server, the application programs resident on the application server;

a display ~~means for displaying~~ configured to display the windowing information supplied by the application programs executing on the ~~remotely located~~ application server; and

means for simultaneously maintaining more than one connection for the application programs between the terminal and server.

2. (Original) The terminal of Claim 1 wherein the multiple connections means includes:

means for establishing more than one virtual machine on the terminal, each virtual machine running an open session.

3. (Currently Amended) The terminal of Claim 1 wherein the terminal includes ~~having~~ a foreground and a background-area, and the multiple connections means includes:

means for stopping and redisplaying ~~the~~ writing of a screen when a session is moved to the background without saving the screen in memory.

4. (Currently Amended) The terminal of Claim 3 wherein the multiple connections means further includes virtual machines;

wherein at least one of the each virtual machines has a text buffer so when the at least one of the virtual machines is in the background it has a virtual buffer that it can write to and it continues to run in the background;

wherein at least one of the each virtual machines sends a signal to a graphics application, and the application sends a signal out to the server to command it to stop sending display when the application is switched to the background so that traffic relating to the graphics application between the terminal and server is stopped; and the server is commanded to redisplay the screen when the application is switched back to the foreground.

5. (Currently Amended) The terminal of Claim 3 1 wherein the multiple connections means ~~further~~ includes a virtual machine;

wherein the each virtual machine stops sending and receiving data to and from the server when an application resides in ~~the a~~ background session, the each virtual machine commanding the server to refresh the data for the application when the application is switched to ~~the a~~ foreground.

6. (Currently Amended) A utility for displaying application program information in a windowing environment on a terminal having a processor, ~~not fully compatible with personal computer BIOS or disk operating systems and incapable of executing windowing applications locally, and~~ the utility comprising an a remotely located application server for executing application programs resident on the server and for supplying ~~which supply the~~ windowing information of the application programs to the terminal, the terminal having a display configured for displaying the windowing information, the utility further comprising:

means for simultaneously maintaining more than one connection for the application programs between the terminal and server.

7. (Original) The utility of Claim 6 wherein the multiple connections means includes:

means for establishing more than one virtual machine on the terminal, each virtual machine running an open session.

8. (Currently Amended) The utility of Claim 6 wherein the terminal includes ~~having~~ a foreground and a background-area, and the multiple connections means includes:

means for stopping and redisplaying the writing of a screen when a session is moved to the background without saving the screen in memory.

9. (Currently Amended) The utility of Claim 8 wherein the multiple connections means further includes virtual machines;

wherein at least one of the ~~each~~ virtual machines has a text buffer so when the at least one of the virtual machines is in the background it has a virtual buffer that it can write to and it continues to run in the background;

wherein at least one of the ~~each~~ virtual machines sends a signal to a graphics application, and the application sends a signal out to the server to command it to stop sending display when the application is switched to the background so that traffic relating to the graphics application between the terminal and server is stopped; and the server is commanded to redisplay the screen when the application is switched back to the foreground.

10. (Currently Amended) The utility of Claim ~~8~~ 6 wherein the multiple connections means ~~further~~ includes a virtual machine;

~~wherein the each~~ virtual machine stops sending and receiving data to and from the server when an application resides in ~~the a~~ background session, ~~the each~~ virtual machine commanding the server to refresh the data for the application when the application is switched to ~~the a~~ foreground.

11. (Currently Amended) A method for displaying application program information in a windowing environment comprising the steps of:

receiving at a terminal ~~sending~~ windowing information supplied by application programs executing on a remotely located application server, the application programs resident on the application server to a terminal not fully compatible with personal computer BIOS or disk operating systems and incapable of executing windowing applications locally;

displaying the windowing information supplied by the application programs executing on the remotely located application server; and

simultaneously maintaining more than one connection for the application programs between the terminal and server.

12. (Currently Amended) The method of Claim 11 wherein the simultaneously maintaining multiple connecting step includes:

establishing more than one virtual machine on the terminal, each virtual machine running an open session.

13. (Currently Amended) The method of Claim 11 wherein the terminal includes having a foreground and a background-area, and the simultaneously maintaining multiple connecting step includes:

stopping and redisplaying ~~the~~ writing of a screen when a session is moved to the background without saving the screen in memory.

14. (Currently Amended) The method of Claim ~~11~~ 13 wherein the simultaneously maintaining multiple connecting step ~~further~~ includes:

providing virtual machines;  
writing to a virtual buffer when at least one of the virtual machines is in the background;  
~~providing each virtual machine a text buffer so when the virtual machine is in the background it has a virtual buffer that it can write to and it continues to run in the background;~~  
sending a signal ~~from each virtual machine~~ to a graphics application;  
sending a signal from the application out to the server to command it to stop sending display when the application is switched to the background so that traffic relating to the graphics application between the terminal and server is stopped;  
commanding the server to redisplay the screen when the application is switched back to the foreground.

15. (Currently Amended) The method of Claim 11 wherein the simultaneously maintaining multiple connecting step ~~further~~ includes:

stopping of sending and receiving data ~~from each virtual machine~~ to and from the server when an application resides in ~~the~~ a background session;  
commanding the server ~~from each virtual machine~~ to refresh the data for the application when the application is switched to ~~the~~ a foreground.

16. (New) The terminal of Claim 1 wherein the terminal is configured to provide windowing functionality to permit use of the application programs resident on the server, without requiring more than application data to be transmitted from the server, and the server is a remotely located application server.

17. (New) The utility of Claim 6 wherein the terminal is permitted to use the application programs resident on the server, without requiring more than application data to be transmitted from the server.

18. (New) The method of Claim 11 wherein the terminal is permitted to use the application programs resident on the server, without requiring more than application data to be transmitted from the server.

19. (New) The terminal of Claim 1 wherein the terminal is configured to access the application programs resident on the server without executing locally the application programs resident on the server.

20. (New) The terminal of Claim 1 wherein the terminal is a thin-client, and the server is a remotely located application server.